FARM AND GARDEN.

Best Food For Young Pigs. A choice quality of bacon and hams will always sell at high prices. The meat should not be fat on the outside, birth. Skimmed milk is the best food of this kind for pigs, and if mixed with boiled potatoes and barley meal will make six-months-old pigs weigh 150 to 180 pounds, or nine-months-old ones weigh 200 to 250 pounds. Such pigs produce the sweetest meat, which in European markets brings fifty per cent. more than the common pork. Here it is most probable that it would bring easily double the price of distillery slop and corn-fed meat and make a most profitable product for farm dairies or dairy farms. Pigs so fed are never troubled with cholera, trichina, tape-worms, measles, and other common diseases of swine which subject ordinary pork to so much and the best is that which is made by full consecutive feeding from birth with amount of early fruit shall be desired. such food as will produce the mixed fat and lean meat .- New York Times.

How to Grow Celery.

our farmers, after repeated attempts, again set in. have abandoned all efforts toward raisfarmer who takes pride in supplying his and set them, but they "had no luck," for they all burned out. Certainly they did; for they demand both coolness and out. boards, slabs, anything to keep the or with the old duck. burning midsummer sun off the plants from ten A. M. to four P. M. (this vertical keeping the ground continually moist, they would have been gladdened by the sight of such bunches at the end of the season as are seldom seen off the exhibition table, simply because they had moderated the surrounding elements and given the plants a chance to "make themselves at home."

Mistakes of Orchardists.

In a paper read before the Maine Pomological Society, D. P. True says: "One of the most common mistakes made by some of the best orchardists is in having too many varieties, making more work in harvesting and not so desirable. In some cases a number of varieties have been placed in one tree. This is one of the worst mistakes. Different locations require different varieties to get the best results. Big mistakes in the selection of varieties have been made. One of the great questions with the orchardist is, what is the most profitable variety to grow and meet the wants of the present and future market? Mistakes are quite common in the distance of planting out trees. This question is largely one of circumstances. If one has more land than money, it may be best not to set so Where land is more costly, trees may be set twice as thick as needed, and when the trees cover the land one-half of them may be removed.

One of the saddest of mistakes is where one puts trees in old worn-out grass fields, and wholly neglects them and expects to raise an orchard. All such cases end in miserable failure. Another mistake is in placing mulch so near the trunk of a tree and in such quantity that it will heat and kill the tree. The writer can testify to the loss of fifty valuable trees killed

in this way.

direction; the leaves are to the tree what the lungs are to the body. Extreme cut-

ting should be avoided. In grafting, orchards in some cases have been nearly ruined by sawing too large limbs or hubs, setting poor scions, grafting limbs in the center of the tree, the scions after the work has been perinto a young orchard without taking the precaution to coat the trunks of the trees | lent shrub for cemetery use. with manure has caused a big loss in some cases. Oxen and large cattle have the winter as little dark, oblong eggs, turned into the orchard. Allowing trees warm days of spring these eggs hatch, is a mistake. Thin the fruit, but do not prop the limb.

main in grass; if you do you will make a mistake. Paving big prices for new varieties has in some cases proved a mis-

Farm and Garden Notes.

Streaks in butter are frequently occasioned by the use of a poor, coarse article of salt. Don't think because cows will drink

out of a mud puddle it is good enough for them. A flock master says sheep should not

be allowed to usurp the functions of hogs in producing grease, or of trees in producing gum.

Green food is absolutely necessary for | fifteen. the health of the hens in winter, and for this purpose cabbages and turnips have been grown.

Sheep may do without water in summer longer than horses can, but they will not prove so profitable as though a good supply is provided.

It has been observed that potatoes which are most subject to rot grow near but of fat and lean mixed evenly through the surface, while those which are less the mass. This is made from young so, grow deeper in the soil. It follows pigs fed on muscle-making food from that hilling up potatoes is something of a protection against rot.

> A strong argument against dishorning is that cattle, deprived of their natural weapons of defence, would be at the mercy of dogs even as sheep are at present. It is easy to answer: "Destroy the dogs," but not so easy to destroy them.

> As the winds often throw melon vines out of place it would be best to allow a few weeds or bunches of grass to remain in among the vines, but not at the base, as the runners would throw out tendrils, connect with the weeds and fasten themselves securely in place.

Tomato vines will endure quite an amount of cutting and trimming, and suspicion. It is now a good season for often renew themselves when nearly young pigs to be put up for feeding, for dead. If the branches be too thick it fed meat is much better than fatted meat, | will be of advantage to cut some of them out from a few vines where a limited

Immediately after a rain, or as soon as the ground will permit, is the proper time to cultivate the soil, as the grass will then be more easily destroyed by the sun's A letter in the Rural New Yorker says: rays when thrown up, while the stirring For lack of proper knowledge of the na- of the soil for a few inches will prevent ture and habits of the celery, most of loss of moisture after dry weather shall

Insects must not be forgotten. Tack ing plants or growing it. Almost any pieces of old carpet, bagging or other coarse fabric around the trunks of apple table with seasonable vegetables, will trees. Remove them every ten days and tell you that he has tried to raise plants crush the larva or cocoons of the "apple and has failed, and has purchased plants | worm" which have hidden under them. Look for the borer in the peach trees and with knife and wire cut and probe it

moisture, and got neither. Now, had Ducks' eggs are well adapted to hatchthe intending growers, having made ing in the incubator, as there is but little their ground both rich and deep, scooped trouble from infertile eggs. They will out a trench two or three inches in depth, stand greater variations of temperature, and set their plants in it six inches especially bearing lower temperature very apart; given the ground around them a well, and the young ducks are easy to slight mulch; laid slats across the trench raise by hand, often doing much better upon which to lay a six-inch wide row of so than when allowed to run with a hen

The smaller the weeds, the easier they are killed. A plant is just as much a covering may be removed as soon as the weed when just in the seed leaf as if it plants commence to grow) meanwhile were large enough to be grubbed up. At this early age, a slight disturbance will kill the sturdiest weed. Use a steel rake with long teeth, keep the teeth sharp and go over all the grounds occupied with crops, with an active man at the handle of the rake, weeds have no chance.

When orchard trees are limbed high there is little risk in giving hogs the run of the orchard, as they will rarely attack the trees unless starved to it. An experiend writer in a Southern paper says: "I deem it best to keep hogs or pigs in the orchard the whole year, except at gathering time. They keep down the rampant growth of weeds, being total destroyers of wild carrots and wild parsnip, the root of which is very poisonous to cows, but hogs are very fond of it. They also rid the orchard of rabbits, snakes and ground hogs (woodchucks), and finally, what better way can you find to distribute their manure?"

In some localities the black smut in corn is often the cause of serious loss. It is worst on land where this crop has been planted several years in succession, showing that the germs live over winter in the soil where they fall. It is a fungus hard to get rid of where it has a foothold. The ears or stalks affected will be found early bursting with sap, and as the spores have not yet ripened so as to become easily detached, these diseased specimens may be removed without much danger of spreading the infection. Later in the season the fungus bursts, and its black dust is scattered by winds, when it gets on the stalks and into the manure pile.

The deutzia ought to be one of the best known of all shrubs, but there are many localities where it is wholly unknown. It has a great many points of merit, and not one objection can be Losses may occur from mice and the brought up against it. It grows well, borer. Some have had whole orchards blooms with the greatest profusion, is destroyed by one or both of these ene- perfectly hardy, and is so beautiful that mies. Careful pruning is necessary, but | whoever sees it will be sure to want to some have made bad mistakes in this plant it. The best known variety is D. gracillis, with single flowers of the purest white, borne in clusters of twenty to fifty at the extremity of each branch, and each main branch has a score of lesser branches. The effect of a large specimen of this shrub when in full bloom, standing by itself on the lawn, can be using poor wax, neglecting to look after | imagined much better than it can be described. D. crenata flore-pleno has formed. These have been the cause of double white flowers, and is very beautimuch damage. Turning sheep and lambs ful, but the single variety, spoken of above, is the finest. This is an excel-

Plant lice on outside vegetation pass proved very fatal to young trees when usually fastened to the buds. With the to overbear and break themselves down and so rapidly do the lice increase that soon they are counted by millions. Another characteristic feature of plant If one has dwarf pears, as the quince lice is their sudden disappearance. This root is fibrous, do not let the ground re- welcome riddance is due, Professor A. J. Cook, entomologist of the Michigan Agricultural College, states, to insect enemies of the plant lice. A remedy suggested by Professor Cook, in a recent bulletin issued, is kerosene and soap mixture. To make this he uses onefourth pound of hard soap, preferably whale oil soap, and one quart of water. This is heated until the soap is dissolved, when one pint of kerosene oil is added and the whole agitated till a permanent emulsion or mixture is formed. The agitation is easily secured by use of a force pump, pumping the liquid with the Hudson River Tunnel will have realforce back into the vessel holding it. He then adds water so that there shall be kerosene in the proportion of one to

Appetite resides more in mind than in

matter.

UNDER THE HUDSON RIVER.

THE TUNNEL TO CONNECT NEW YORK AND NEW JERSEY.

Two Parallel Galleries-Power of Imprisoned Air-A Comparison With Great English Tunnels.

The tunnel is not a pleasant place to visit if the visitor goes with the impression that he is to see a new Mammoth Cave full of stalactites and other glittering objects. Down into a well of fifty feet he is dropped like a leaden ball, and when once standing on the bottom he finds himself at the entrance. Two parallel galleries, separated by a few feet, extend out indefinitely under the bed of the river. The south gallery is dark at this time; but as far as the eye can reach along the north gallery twinkling lights are seen. But they only serve to make darkness visible. The visitor meets his first surprise on following the footsteps of his guide into the arched opening. He discovers that he can touch the highest point of the arch with his hand by a slight effort, and that if he is not cautious he will touch it sometimes without any effort whatever, and carry off some of its slime upon his tile. How is the tall smokestack of a locomotive to stand erect in this limited space? This will be likely to be his first inquiry; but a few words of explanation solves the riddle. It is not economy, with the imin the tunnel.

in the construction of the Hudson River | troit Tribune. Tunnel. Having got your feet out of the tangle of tripods you pass on; but it would be useless to report all the curious things that a man sees in a passage into this mysterious cavern. The truth is he sees nothing very clearly until finally, when the distance begins to seem interminable, he reaches the first air lock. This looks like the opening to a cemetery vault of reduced size, and the prospect beyond does not seem any more inviting. A heavy brick wall is built solidly across the tunnel with an iron door three or four feet high in the middle, and all beyond seems eternal darkness and silence. As you gaze you feel a sense of respect for the courage of men who day after day will consent to pass through such a seemingly impenetrable barrier. It is a little too suggestive of the life beyond the grave to be quite

comfortable. At this point you may have your first illustration of the power of the imprisoned air demon. The air locks, it should be known, are operated after the precise system of water locks on a canal. Before the outer door can be opened the air in the lock must be let out through a small aperture; and here you may learn some of the capabilities of compressed air. In comparison with the noise made in its escape all the steamers of the North River blowing off their steam in chorus would be only as the whispering of the wind to the roll of thunder. It fills the tunnel with such an excruciating and long continued roar that life seems to be opened, and, having been locked The workmen who pass eight hours of pose, -Home Journal. the twenty-four in the compressed air chamber complain a little of what they call rheumatism, but suffer no serious in-

convenience. For both safety in construction and stability after the work is completed, the plan of the Hudson River Tunnel seems to be superior to the plan of either of the long tunnels under water in England. The Mersey Tunnel is formed by a single arch, nineteen feet high and twenty-six feet wide, both tracks of the railroad being carried through the single opening. The entire weight of the arch rests, therefore, upon its one foundation. But ly the support of double foundations for a superstructure not more than one-fourth

will facilitate operations after the trains have been put in motion. There should be little danger from derailed trains or collisions in such a tunnel, and track walkers should find as much security as in the open air. In the construction of the Mersey and Severn Tunnels, too, the engineers were constantly meeting with accidents. The water repeatedly broke in upon them from above, and they were as often drowned out by springs. But since the first accident, when the engineers were freeing themselves from the tangle of bulkheads and piers, the work on the Hudson River Tunnel has gone forward with absolute exemption from serious mishaps. Compressed air, reinforcing a prudent plan, seems to be a willing

and effective servant. The cost of the work may be estimated now with reasonable certainty, and it will be very much less than the cost of any of the huge bridges finished, under way, or projected across the navigable waters in the vicinity of New York. The Severn tunnel, 41 miles long, of which 21 miles are under water, cost in all £2,000,000. But the work seems to have been done in a very experimental way, and not in accordance with the best methods. Could the Hudson River Tunnel be completed quickly so as to shorten the interest account it would prove a very inexpensive work, -New York Sun.

Actions of Drowning Persons. "I believe I can tell just by the clutch perfect means at hand, to take all the how many times a drowning person has silt excavated from the headings of the been down," musingly remarked Edtunnel to the surface. Only enough is ward Horn, of the ferry company, lifted from the well to leave a passage the man who has saved sixty-four lives. way to the working chamber, and the . The first trip down they go for you with remainder is left in the tunnel until the a firm, decided clutch that means they approaches are completed, and it can be still know what they are about. The moved by the aid of a steam engine and second immersion causes a shaky, uncercars. Each of the two parallel galleries tain grip, which can be easily broken if are eighteen feet high under the arch by you so choose. It is the last time down sixteen feet wide. But only about six that the grasp becomes a convulsive, befeet or seven are left open for a passage, | wildered one, and but few swimmers can and probably as much as three-fourths of save a person after the unfortunate man the silt taken from the heading remains has descended for the third time. Almost invariably the drowning man on Following your guide along the his final journey below the water will straight and narrow way which stretches | seize his preserver by the legs. It seemsout into the darkness you discover occa- to be a law of nature and one I cannot sionally what seems to be the ghost of account for. It would be easier to save a some patient mule dragging at his heels | whole river full of men than one drowning on a very narrow tramway a small load woman. The odd feature of the latter's of silt. This is some of the excess which struggle in the water is that she will must go to the surface. Suggestive also seize your hands if she can get hold of of the extreme care which must be used one or both of them. A woman will in the construction of such a work, you drown quicker than a man. She opens ing. A round bullet head-no orbital find yourself sometimes almost stumbling her mouth from the time she first strikes arch, so that from nose to occiput is over the tripods of surveyors who block the water and never closes it, and so almost a straight line; muzzle retreating the way. It was the boast of the engi- loses her senses more easily. Yes, I saw and blunt with a cleft or "hare" lip; eyes neers of the Mersey Tunnel that they met one person die of strangulation while we small, oblique and wide apart (the only under the middle of the river on lines | were under water together. His eyes were | thing "celestial" about him); ears small, that varied less than one inch from a wonderfully fascinating as he stared helpcontinuous line. It is expected that an lessly at me. You may not believe it, bu equally scientific result will be reached | they shone like two balls of fire."-De-

Swords and Revolvers.

Although as far back as the civil war in the United States it was proved beyond doubt that cavalry armed with swords had not the remotest chance of success against those armed with revolvers, and although almost every nation in Europe arms its cavalry with the latter weapon, the English War Office, with even more than its usual inaptitude and obstinacy, refuses to furnish our cavalry with this weapon. right. Well, sir, I've got three acres and The revolver is a weapon requiring much | a half as good corn as there is around practice to be of value, but in the hands here, and they haven't touched it. I'll of one who has mastered its use it is a terrible weapon. A cowboy of New Mexico is not regarded as a good shot I can, and then when my corn gets up I except when riding at full speed along a hang their dead bodies around the field, line of telegraph poles he can put a ball and they don't touch it. No, sir, if the into each as he passes it; and the result crows see some of their dead companions themselves more than a match for the never will."-Lewiston (Me.) Journal. regular cavalry, they will fly before a party of cowboys, even if they outnumber them many times, while a hundred cowboys would rightly consider themselves as a match for a whole regiment of regular cavalry. The sword was an admirable weapon in the old days, but a soldier armed with only a sword might be as well unarmed altogether were he to meet one armed with a revolver who was an adept in its use-London Standard.

The Chinese in Honolulu. Honolulu is almost overrun by the Chino longer worth living. But it ceases nese; many of these are merchants of no suddenly and the visitor can then pass small pretensions, and one or two are into the lock. After the door is closed millionaires. One of the prettiest resibehind him, however, he must wait in dences in the fashionable part of the outer darkness until the space is again city is owned by a Chinaman named A. filled with compressed air from the inner Fong. His establishment is one of regal chamber. Then the inner door may be and oriental splendor. The natives appear to take very kindly to the Chinamen, through, he will be at liberty to pass the Kanaka women marrying them in onward. But he will move with an ad- preference to white men or men of their ditional pressure of thirty-four pounds of own nationality, and in this I think they air on every square inch of his limbs. If | are fully justified and evince sound disa man is in perfectly sound physical con- eretion. The Chinaman is frugal and dition he will be able to bear it without thrifty-respects and takes pride in his difficulty. It is only thirty-four pounds | Kanaka wife, escorts her about and furadded to the normal pressure of fourteen. nishes a good home. The native is too which every man experiences without indolent, too improvident or too big an any sense of carrying a load. But if he Indian to take his wife into consideration, has any malady of the ear he will be ad- and the white man abuses and deserts her vised to remain where the air is thinner. whenever and as often as it suits his pur-

The Sardine Crop.

Another crop is pronounced a failure. The domestic canning of sardines, or herring, amounted last year to 150,000 cases or 10,000,000 boxes. So far this year the pack has been almost a failure, on on the blood impurities are expelled and the whole account of the failure of the small fish to body is benefited. run in shore. Indiscriminate fishing during the spawning season, ard killing off the old ones in winter, has made a scarcity in our waters, and the Canadian cruisers have prevented our fishermen seeking them anywhere else. The sardine fisheries of France are also proving a failure this year. Some home dealers are said to be making up the deficiency heavier than the Mersey Tunnel. The by using cotton seed oil, instead of olive advantage will be readily seen. The seed oil, as in France and Portugal, and by catching large-sized herring, cutting work itself will be firmer, while easy communication between the two arches at the distance of each one hundred feet them as sardines.—Newport (R. I.) News.

Blair's Pills Great English Gout and them up in proper lengths, and branding them up in proper (R. I.) News. at the distance of each one hundred feet | them as sardines. - Newport (R. I.) Nows.

Big Hidden Cities.

The world is small and round. Everybody says so. Yet how many of the people who repeat this remark ever heard of a city named Aitchi? Precious few, we imagine. Nevertheless, Aitchi is as big a city as New York. It is estimated by a writer in the Pall Mall Gazette that Aitchi contains 1,332,050 peeple. Then how many Bostonians ever dreamed of the existence of Changchoofoo, Sian or Tschantshan-fu? Every one of them has a million inhabitants. Then there are besides Hang-Tscheon, Sartama, Tein-Tchoo and Woo-Chang. Oshkosh is oftener heard of among the people of Christendom than all these four cities together. Still any one of them contains more people than a Chicagoan ever claimed for his town, even when in the presence of a St. Louisan.

Although it is round beyond doubt it is a pretty big world after all.

Another singular fact brought out in the table from which the foregoing figures are quoted is that America, although discovered only 400 years ago, has five cities of more than 400,000 inhabitants, a number greater than any other country, except in Asia. - Boston

The Beard Growing After Death.

An Oakland (Cal.) undertaker cites an instance of a smooth-shaven man's body being exhumed fifteen years after burial and disclosing a snow-white beard that reached almost to the feet and flowed over the sides of the corpse, filling nearly all the space in the coffin. The dead man's widow refused to believe the body was that of her husband until the posthumous beard was shaved off, when she at once recognized the face. The undertaker says:

"If the body is preserved from decay by being buried in an iron, air-tight casket, the beard will not die, but go on growing just so long as corruption is averted. I do not think that the hair of the head ever increases in length, but you know, even in life a man's locks become scanty, and finally disappear altogether, as he grows old, while his age usually serves to make his beard thicker and longer. I can vouch for the vitality of the hair that sprouts from the chin."

The Homely Beaver.

Whatever may be the decision as to the intelligence of the beaver, his countenance, at least, is singularly unprepossessthick and knobby-the whole appearance. is one of general stupidity rather than of that high-bred intelligence which we see in the head of the mastiff or the collie. Craniologists and phrenologists would certainly go widely astray were they to attempt to deduce, from the face and head of the beaver, any inference as to the sagacity of the brain lodged in that abnormally thick and misshapen skull .--

A Warning to the Crows.

An old farmer said to our Livermore Falls correspondent: "There's no trouble with crows if you only handle them tell you how I do it. As soon as the crows put in an appearance I shoot as many as is that although the Indians consider and haven't tasted of the corn, they

> Good manners and good morals are sworn friends and firm allies. - Bartol.

Is It Not Singular

That consumptives should be least appresensive of their own condition, while all their friends are urging and beseeching them to be more careful about exposure and overdoing. It may well be considered one of the most alarming symptoms of the disease, where the patient is reckless and will not believe that he is in danger. Reader, if you are in this condition, do not neglect the only means of recovery. Avoid exposure and fatigue, be regular in your habits, and use faithfully of Dr. Pierce's "Golden Medical Discovery." It has saved thousands who were steadily failing.

THE births recorded in London every week exceed the deaths by more than a thousand, and during the next ten years the increase in the number of inhabitants will probably be nearly three-quarters of a million.

Beautiful Women

Are made pallid and unattractive by functional irregularities which Dr. Pierce's Favorite Prescription" will infallibly cure. Thousands JAPANESE ladies are rapidly adopting the

European fashion of dress.

Don't hawk, hawk, blow, spit, and disgust everybody with your offensive breath, but use Dr. Sage's Catarrh Remedy and end it. THE Gentile votes of Utah are about 15 per

cent, of the whole number. If afflicted with sore eyes use Dr. Isaac Thomp-son's Eye-water. Druggists sell at 25c. per bottle

'ROYAL GLUE' mends anything! Broken Chi. na, Glass, Wood. Free Vials at Drugs & Gro The best cough medicine is Piso's Cure for Consumption. Sold everywhere. 25c.

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gives us complete and permanent control of our nerves." By regulating the digestion it also overcomes dyspepsia and disagreeable feelings in the stomach, cures headache and heartburn. By its action

"I never can thank Hood's Sarsaparilia for helping me so much. When I began taking it I was confined to the bed nearly all the time Now I am up the best part of the day, have a better appetite than for five years, and am not nearly so nervous as I have been." MRS. ANN A. HAILER, Nicetown, Philadelphia.

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